



CARLETON UNIVERSITY

Ottawa, Ontario

114th Convocation

Saturday, June 17, 2000



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2000 Spring Convocation

Convocation at Carleton University — 2



Saturday, June 17, 10:00 a.m.

Honorary Degree Recipients Carol Shields and Donald Shields — 4,5
High School Teaching Award Recipient Gerald Ryan — 6

Order of Proceedings — 7

Doctor of Philosophy from the Faculty of Engineering and Design;
Master of Engineering; Master of Architecture; Bachelor of Engineering;
Bachelor of Architecture; Bachelor of Industrial Design



Saturday, June 17, 2:00 p.m.

Honorary Degree Recipients G. Karl Diedrich and Jay Ingram — 16,17

Order of Proceedings — 18

Doctor of Philosophy from the Faculty of Science and the School of Computer
Science; Master of Science; Master of Computer Science; Bachelor of Science
(Honours) and Bachelor of Science; Bachelor of Mathematics (Honours) and
Bachelor of Mathematics; Bachelor of Computer Science



Medallists in the Graduating Class — 32

Convocation at Carleton University



The Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

The Mace

The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English—"Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Coat of Arms

The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn, Governor-General of Canada, on November 15, 1992 as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows: "Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 82 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Diploma

The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the

requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's—are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: architecture is cerise; arts is white; commerce is camel brown; computer science is royal blue; engineering is orange; humanities is white with a red cord sewn slightly in from the lower border; industrial design is dark cardinal; international business is camel brown with a red cord sewn slightly in from the lower border; journalism is white with a black cord sewn slightly in from the lower border; management studies is camel brown with a black cord sewn slightly in from the lower border; mathematics is hunter green, music is venetian pink; public administration is peacock blue; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The master's and bachelor's gowns, to be worn with the above hoods, are of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The doctoral gown is of full-style, made of fine royal blue cloth with facings of light blue silk, with a full gathered yoke behind, and closed sleeves with an opening at the elbows.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations, the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Science, Engineering, Architecture or Fine Arts is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same material as the gown, has the same lining as that for the degrees granted by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; red for the

degree of Doctor of Science; orange for the degree of Doctor of Engineering, cerise for the degree of Doctor of Architecture, and dark cardinal for the degree of Doctor of Fine Arts.

Alumni Park

Weather permitting, today's Convocation ceremonies are being held outdoors in Alumni Park which was dedicated in 1992, at the initiative of the Carleton University Alumni Association, to commemorate the University's 50th anniversary. The arbour under which the Chancellor, the President and Vice-Chancellor, the representative of the Board of Governors, and the faculty are seated is a generous gift from the Association. It provides a permanent stage for Carleton's Convocation ceremonies and other events such as theatrical productions, concerts, and the like. Future plans for the Park include an enhancement of the existing fountain area with the construction of a plaza and landscaping to open up views to the Rideau River.

The Presiding Officer of Convocation is the Chancellor of the University, Arthur Kroeger, O.C., M.A., LL.D.

Accompanying him on the podium are Robert Laughton, Q.C., B.A., LL.B., Chair of the Board of Governors (morning ceremony), and Gail Harmer Mutton, B.A. (afternoon ceremony), representing the Board of Governors, and Richard J. Van Loon, B.Sc., M.A., Ph.D., President and Vice-Chancellor.

Assisting the Chancellor are:

Chong H. Chan, B.Sc., M.A.Sc., Ph.D., P.Eng.
Professor of Engineering
Clerk of Senate
and Marshal of Convocation

Brian C. Mortimer, B.Sc., M.Sc., Ph.D.
Associate Professor of Mathematics
Associate Dean of the Faculty of Science
and Associate Marshal of Convocation

Robert C. Burk, B.Sc., M.Sc., Ph.D.
Assistant Professor of Chemistry
and Beadle of Convocation

James J. Cheetham, B.Sc., Ph.D.
Assistant Professor of Biology
and Beadle of Convocation

Robert J. Crutchley, B.Sc., Ph.D.
Associate Professor of Chemistry
and Beadle of Convocation

Moyra J. McDill, B.Eng., M.Eng., Ph.D., P.Eng.
Professor of Mechanical and Aerospace Engineering
and Beadle of Convocation

Delphine Rossille, Eng.Dipl., M.Sc., Ph.D.
Assistant Professor of Systems and Computer Engineering
and Beadle of Convocation

Donald L. Russell, B.Eng., M.S., Ph.D.
Associate Professor of Mechanical and Aerospace Engineering
and Beadle of Convocation

Also assisting at Convocation:

Carol Corkran
Acting Assistant Dean/Registrar
Faculty of Graduate Studies and Research

Ata M. Khan, B.Eng., M.Eng., Ph.D., P.Eng.
Professor of Engineering
Associate Dean
Faculty of Engineering and Design

Lisa Ralph
Acting Assistant Dean of Students and Registrar,
Faculty of Science and School of Computer Science

June Drayton Callendar, B.Soc.Sc.
Christina Farago
Sharon Palmer
Glendy Wong, B.A.
Registrar's Office, Faculty of Graduate Studies and Research

Barbara Baynaham, B.A.
Mary Orser
Registrarial Services, Faculty of Science and School of
Computer Science

Pegge Clarke
Angel Garrett, B.Sc.
Marlene Groves
Colin Harkness, B.A.
Registrarial Services, Faculty of Engineering and Design

Anne-Marie Lépine
Monika St. Jean
Records and Registration Services

Pamela Mallon
Patrick O'Brien, B.A., D.P.A.
Gail Stanton
Office of the President

Jason Anderson, B.A.
Heather Brown, B.A.
Allister Hain, B.A., M.A.
Nanci Jolicoeur
Rosemary Patterson
MaryAnne Pomainville
Janet Weichel McKenzie, B.A.
University Communications

Cathy Pearen
Senate Office

Honorary Degree Recipient



Carol Shields

Carol Shields, O.C., B.A., M.A., D.U., D.Hum.L., D.Litt., LL.D., F.R.S.C., Pulitzer Prize-winning author, winner of the Governor General's Award for Fiction, Chancellor of the University of Winnipeg, and Professor of English, University of Manitoba, will be awarded the degree of Doctor of Literature, *honoris causa*, at the morning ceremony on Saturday, June 17, "in recognition of one of Canada's most pre-eminent and honoured writers."

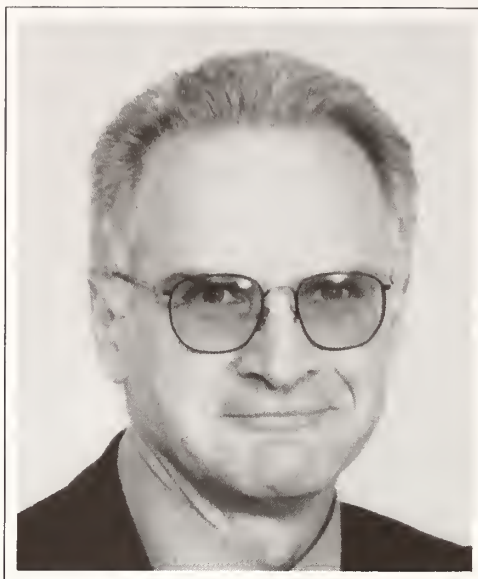
Honorary Degree Recipient



Donald Shields

Donald Shields, B.Sc., D.I.C., Ph.D., P.Eng., F.E.I.C., former Head of the Department of Civil Engineering, and former Dean of Engineering, University of Manitoba, will be awarded the degree of Doctor of Engineering, *honoris causa*, at the morning ceremony on Saturday, June 17, "in recognition of a distinguished career as a civil and geotechnical engineer, an educator, a researcher and a developer of research infrastructure."

High School Teaching Award



**Gerald Ryan, B.A.,
Department of Business,
St. Mark High School, Manotick, Ontario**

The High School Teaching Awards were established to acknowledge outstanding high school teachers in Eastern Ontario who have provided their students with the influence and inspiration to excel. Teachers are nominated for the awards by Carleton University graduating-year scholarship winners who have graduated from Eastern Ontario high schools.

Order of Proceedings

Saturday, June 17, 10:00 a.m.



Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

*The audience is requested to stand when the Academic Procession arrives,
to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony
to remain until the Academic Procession has left.*

Processional Music

Fraser Clark, B.A., M.A. (bagpipes)
John Robert Coghill Jr., B.Mus. (bagpipes)
Garry Matthews (snare drum)

O Canada*

(the audience is invited to sing)

Introduction

Richard J. Van Loon, B.Sc., M.A., Ph.D.
President and Vice-Chancellor

Welcome by the Master of Ceremony

G. Stuart Adam, B.J., M.A., Ph.D.
Vice-President (Academic)

Conferring of the Degree of Doctor of Literature, *honoris causa*, upon

Carol Shields, O.C., B.A., M.A., D.U., D.Hum.L., D.Litt., LL.D., F.R.S.C.
(presented by Sonya Lipsett-Rivera, B.A., M.A., Ph.D., Associate Professor of History)

and the Degree of

Doctor of Engineering, *honoris causa*, upon

Donald Shields, B.Sc., D.I.C., Ph.D., P.Eng., F.E.I.C.
(presented by Gunther Bauer, B.A.Sc., M.A.Sc., Ph.D., F.E.I.C., Professor of Engineering)

Convocation Address

Carol Shields and Donald Shields

Conferring of Degrees by Examination

Warrant

Chong H. Chan, B.Sc., M.A.Sc., Ph.D., P.Eng.
Clerk of Senate

Awarding of Medals

Presentation of a High School Teaching Award to

Gerald Ryan, B.A.
(presented by Leonard T. Librande, B.A., M.A., Ph.D., Dean of Students)

** see next page for words*

O Canada



O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.

Recipients of Degrees



Doctor of Philosophy

(presented by Professor A.G.
Razaqpur, Associate Dean of the
Faculty of Graduate Studies and
Research)

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

Shaohong Cheng

B.Sc., M.Sc. (Tong Ji, China)

Civil Engineering
Structural And Aerodynamic Stability
Analysis Of Long-Span Cable-Stayed
Bridges
Supervisor: D. Lau and M. Cheung

* Walter Timothy Bax

B.Eng., M.Eng. (Carleton)

Electrical Engineering
Modulation and Frequency Synthesis
for Wireless Digital Radio
Supervisor: Miles Copeland

* Francis Bordeleau

*B.Sc., (Montreal), B.A.Sc. (Quebec, Hull),
M.C.S. (Carleton)*

Electrical Engineering
A Systematic and Traceable
Progression from Scenario Models to
Communicating Hierarchical State
Machines
Supervisor: R.J.A. Buhr

Jean-Paul Rene DeCruyenaere

B.Sc. (Manitoba), M.Eng. (Carleton)

Electrical Engineering
Radio Coverage of Millimetre-Wave
Broadband Wireless Access Systems
in Suburban Areas
Supervisor: D.D. Falconer

* Hesham Mahmoud El-Sayed

B.Sc., M.Sc. (Alexandria, Egypt)

Electrical Engineering
A Framework for Automated
Performance Engineering of
Distributed Real-Time Systems
Supervisor: C.M. Woodside

* Roy Gregory Franks

B.A.Sc. (Waterloo), M.Eng. (Carleton)

Electrical Engineering
Performance Analysis of Distributed
Server Systems
Supervisor: C.M. Woodside

* Paul Allen Langner

B.Eng., M.Eng. (Carleton)

Electrical Engineering
A Robust, Efficient Physical Layer
Transport Protocol for Packets
Supervisor: R. Mason and
M. Snelgrove

Chad Elliott English

C.A.S., B.Eng. (Acadia), M.Eng. (Carleton)

Mechanical Engineering
Stiffness Behaviour In Two Degree
Of Freedom Mechanisms
Supervisor: D.L. Russell

* Walid A. Moussa

*B.Sc., M.Sc. (The American University In
Cairo, Egypt)*

Mechanical Engineering
Finite Element Study of the
Interaction and Shielding Effects of
Multiple Cracks in Three-Dimensions
Supervisor: R. Bell and C.L. Tan

Darren Dale Radford

B.Sc. (Winnipeg), M.Sc. (Manitoba)

Mechanical Engineering
Mechanical and Constitutive
Behaviour of Zr-2.5Nb Pressure
Tube Material at High Rates of
Tensile Strain
Supervisor: M. Worswick and
A. Pilkey

Jacobus Franciscus Adrianus Maria van Hoof

*M.Sc. (Technische Universiteit Eindhoven,
The Netherlands)*

Mechanical Engineering
Modelling of Impact Induced
Delamination in Composite Materials
Supervisor: M. Worswick and
P. Straznicky

Master of Engineering

(presented by Professor A.G. Razaqpur, Associate Dean of the Faculty of Graduate Studies and Research)

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Allan D. Grosvenor

B.Eng. (Carleton)

Aerospace
Numerical Simulations Of Diffusing S-Duct And Vortex-Generator-Jet Flows

Richard Michael Kearsey

B.Eng. (Technical University of Nova Scotia)

Aerospace
Development and Characterization of a Damage Tolerant Microstructure for a Ni-base Turbine Disc Alloy

Nelson Luiz De Paula Menezes Monnerat

Engenheiro Mecanico (Escola Politecnica, Sao Paulo)

Aerospace
A New Digital Differential Analyzer Approach for Inertial Technologies

* Frederick William Schultz

B.A.Sc. (Toronto), B.Eng. (Ryerson Polytechnic)

Aerospace
Loss of Rotation of a Rotating Two-Body Tethered Spacecraft- Analytical and Experimental Techniques

Kenneth James Zavitz

B.Eng. (Carleton)

Aerospace
A Method for Designing Low-Speed Linear Turbine Cascades for the Experimental Investigation of Viscous Effects in Transonic Axial Turbines

Ramesh Jagannathan

B.Eng. (Carleton)

Civil

* Nadeem Hasan Siddiqui

B.Eng. (N.E.D., Pakistan)

Civil

Nested Logit Models for Motorized and Non-Motorized Modes

* Uvaiz Ahmed

B.Eng. (Bangalore, India)

Electrical

Performance Evaluation of Explicit Congestion Notification Methods in IP Networks ECN and BECN

Gang Ao

B.Eng. (Huazhong University of Science and Technology, China)

Electrical

Software Hot-Swapping Techniques For Upgrading Mission Critical Applications On The Fly

James Craig Bronson

B.Eng. (Royal Military College)

Electrical

Simulation and Modelling of Interference and Shadowing in LMCS

* Turki Hadi Hamad Darweesh

B.Eng. (Kuwait)

Electrical

Capacity and Performance Analysis of a Multi-User, Mixed Traffic GSM Network

* Anestis Dounavis

B.Eng. (McGill)

Electrical

Time Domain Macromodels for High Speed Interconnects

* Ning Feng

B.Eng. (Tsinghua, China)

Electrical

S-Module Design for Software Hot-swapping

* Homayun Feyzbakhsh

B.Sc. (Tehran Polytechnic)

Electrical

Development of A Library of Neural Models for Microstrip Line Components for High Frequency Circuit Design

Julius Francis

B.A.Sc. (Waterloo)

Electrical

* Ying Huang

B.Eng., M.Eng. (Zhejiang, China)

Electrical

Effects of Vocoder Distortion and Packet Loss on Network Echo Cancellation

* Xin Li

B.Eng., M.Eng. (Shanghai, China)

Electrical

A Universal Closed-Form High-Speed Interconnect Model for General Purpose Circuit Simulators

Marios Stavrou Parperis

B.Eng. (Carleton)

Electrical

Delay Estimation And Its QoS Simplifications In Voice Over IP Networks

* Naveenta Verma

B.Eng. (Poona, India)

Electrical

Controlling Shared Memory Contention on a Multiprocessor-based Telephone Switch

Mathys Walma

B.Eng. (McMaster)

Electrical

Multiple Access Schemes For The Microwave Light Organized Network (Milton)

* Xiang Shannon Wang

B.Sc. (Xi'an Jiaotong, China)

Electrical

Characterization and Digital Correction of Multi-bit Delta-sigma Modulators

* Xin Xu

B.Eng. (Southeast, China), M.D. (Nanjing, China)

Electrical

Effects of Delay Jitter and Clock Slippage on Network Echo Cancellation

* Shijun Yang

B.Eng. (Nanjing Institute, China), M.Eng. (Beijing, China)

Electrical

Smart Receiver Using Baseband Digital Signal Processing

Shunsuke Morinishi

B.Eng. (Carleton)

Materials

Predicting the Features of Structural Steel Welds with Internet Technology (degree awarded posthumously)

* Henry M. J. Saari

B.Eng. (Carleton)

Materials

The Processing of Gas Turbine Engine Hot Section Materials Through Directional Solidification

Brent Bailey

B.Eng. (Carleton)

Mechanical

Investigation of a Composite Hingeless Helicopter Rotor Blade with Integral Actuators

Timothy Andrew Burke*Diploma (St. Francis Xavier),**B.Eng. (T.U.N.S.)*

Mechanical

Modeling And Evaluation Of

Nonback Driveable Transmissions

For Variable Stiffness Protheses

Kailin Deng*Diploma (Xinjiang Inst. of Tech., China),**M.Sc. (China Inst. of Mining and Tech.,*

Mechanical

On-line Identification of a Two-Stage

Thermo-Mechanical Pulping Process

*** Gang Luo***B.Eng. (Hangzhou, China)*

Mechanical

Kevin Bernard Chafe*B.Eng. (Royal Military College),**M.Sc. (Florida State)*

Telecommunications Technology

Management

A Practical Solution To Interoperable

Secure E-Mail Over The Internet

Master of Architecture*(presented by Professor A.G.**Razaqpur, Associate Dean of the**Faculty Graduate Studies and**Research)*

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Minoo Azad*M.Sc. (Tehran, Iran)*

A Proto-Pattern Language for

Human-Computer Interaction

Katie Chau*B.E.S., B.Arch. (Waterloo)*

Architecture + Hypermedia:

A Didactic Approach To Exploring

Architecture As Both Content And

Method In A Hypermedia

Environment

*** Jennifer Lynn Fraser***B.Arch. (Carleton)*

Visualizing a Hypertext Narrative

Marjan Ghannad*B.Arch. (Carleton)*

A Study on the Formation of the

North Dome of Masjid-i-Jami Isfahan

Farideh Hooshangi*M.Arch. (Tehran, Iran)*

Isfahan, City of Paradise A study of

Safavid urban pattern and a symbolic

interpretation of The Chahar-Bagh

gardens

Vidya Shankarnarayan*G.D.Arch. (L.S. Rabeja School of**Architecture, India)*

A Room of One's Own: Making a

Place for On-Line Communities

*** Scott Andrew Weir***B.Arch. (Carleton)*

Quintopolis

Bachelor of Engineering*(presented by Professor S.A.**Mahmoud, Dean of the Faculty**Engineering and Design, assisted by**representatives of Departments)*

Degrees conferred at Spring Convocation

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AEROSPACE**Alexander M. Beattie***with distinction***Carlos Bergueiro***with distinction***Lisa D. Brideau***with distinction***Alex Cao***with distinction***Timothy James Caron****Arthur J. Casement***with distinction***Chantz William Victor Cassell***with distinction***Heather E. Chapman****Alexandre P. Deslauriers****Kent Charles Dietrich****Peter William Duclos****Alexis M. Howell***with distinction***Frederick John Jorgensen****Slobodan Jovic****Reena Katarya****Michael H. Kennedy***with high distinction***Martin Kratochvil****Jeremy Krol***with high distinction**** Alice Shok-Yee Kwong***** Joshua Paul Lamorie****Robin Langtry****Shane Christopher LeRoux***with distinction***René J. Lipp****Thomas A. Marsh****Chris Martin***** Stacey Mason****Steven G. McLeod****Drew W. McNair***with distinction***Marcin Michalowski***with distinction***Zamir Nathoo****Martin Oliver Neuteboom****Chok Nam Ng****Daniel G. Opoku***with high distinction***Robert Peluso***** Kyle Sean Zaccheus Pilatzke****Nils R. Pokrupa***with high distinction***Shauna M. A. Rauhala***with high distinction***Colin Michael Roch****Mark Leo Denis Senez***with distinction***Laura M. Sie***with high distinction***Darcy Allan Simmelink***** Brennan Jeffery Soutar****Aaron Gordon Speer***with distinction***Mathialagan Subramaniam****Eryk Roland Swist***with high distinction***Brian A. F. Taylor***with high distinction***David Joe Willis***with high distinction***Yuk-Gee Angela Wong**

CIVIL

* Alexander Cheuk-Wah Lam

Raymond W. W. Lam

Jean C. Lim

Concentration in Management

Lisa Lim

Shao Khai Lim

Daniela Ramirez

Concentration in Management

Co-operative Education

Leslie Dawn Rooke

Sarah Taylor

with high distinction

Sacha Karina Van Den Hanenberg

Concentration in Management

Michael Williston

Wendy Leann Yuke

Concentration in Management

* Arash Zakeri

with distinction

COMPUTER SYSTEMS

Giuseppe Agnello

with high distinction

Christopher Alford

Patricia Melanie Atwood

with high distinction

Sivaharan Balasubramaniam

with high distinction

Christina Anne Catley

with distinction

Heng Sun Chao

with high distinction

Anita Wai Yin Che

with distinction

Billy Cheung

Minor in Business

with distinction

Michael A. Christie

Benjamin Ming Heng Chuah

with distinction

Colin Davidson

Daniel S. Faya

with high distinction

Edwin J. Frondoza

Michael D. Goring

James Thomas Graham

with high distinction

Yasothai Gunabalasingam

with high distinction

Maneesh Chandra Gupta

Wagdy Erian Hanna

with distinction

Mohammad Javanmardi

Ian C. Jolley

with high distinction

Rami Kawach

Adam R. Konecny

with distinction

Caroline Lam

with high distinction

Kevin Lam

with high distinction

Sitson Lee

Adam J. Lomas

with distinction

Eric Lussier

James M. MacDonald

with distinction

Nancy Jeanette MacKay

with high distinction

Vinothan Mahalingam

Mamans N. Mariadasan

Mark Andrew McEvoy

with high distinction

Joseph James McMaster

Mesfin Ketema Meshesha

James Morgan

with distinction

Jasminka Mulahusic

* Meng Pann

Joseph J. Paul

with high distinction

Paula Teodora Popescu

B.Sc. (Ottawa)

with high distinction

Tamim Rahman

with distinction

Peter Matthew Burton Schloen

Mark A. Seaby

Piotr Smetny-Sowa

with high distinction

Kajetan Szalankiewicz

* Lagunarajan Thangarajah

Ajanthan Thirusittampalam

* Minh Tran

Nicholas N. Tsagaris

with high distinction

Satheeskumar Vaithilingam

with distinction

Jaime G. Walker

with high distinction

Yue Wang

Christopher Michael Witham

Jeremy Albert Wubs

B.Com. (Carleton)

with distinction

Terrence Xavier

Perakalathan Yoganathan

ELECTRICAL

Zamzarina Abdul Aziz

with distinction

Afzal Ahmad

Raed R. A. Almasri

Janet Attar

Joel R. Aubé

Dahlia Barakat

Michael Braden Botting

Michael K. Bowler

with high distinction

Anthony Kwok Sing Chan

with distinction

Fu Keong Chan

with distinction

Eric T. Charron

* Gia Lekeisha Danielle Chisholm

Eddy Wayne Chow

B.Sc. (Waterloo)

with high distinction

* Asif Chowdhury

Michael John Crichton

with high distinction

Michael T. Cross

Farah Dalel

Ann-Marie Kirsten Dawson

Sean Doef

Mohamed Elmi

* Ying Fang

with high distinction

Erika Farkas

Andy Fong

Mohammed Hosny Gaabass

Tatjana Gunjak

Andrea C. Gutsik

* Saami Atif Hamid
 Houssam Hammoud
 Mark Harps
 Tom B. Herbert
with distinction
 David Chuan Wei Huang
 Robin Leigh Marion Hudson
B.Sc. (Waterloo)
with high distinction
 Sher Singh Jagdev
 Maja Janjis
with distinction
 Chandrakumar Kalirasa
 Balasrikugan Kandiah
 James R. Kerr
 * Imran Khalid
 Andy Lau
 Dy Lau
 Theresa Leong
 Travis W. Lovitt
with high distinction
 Eric Robert MacDonald
 Shankarram Mahadevan
with high distinction
 Ramashan Manikavasagar
 Dave Langley McPhee
with high distinction
 Otsile R. Mogale
 Ian Moses
 Raza A. Mughal
 Nathan W. Murphy
 Suthasan Nagarajah
 Sathiyalingam Nannithamby
 Carlos Oviedo
 Jeyaranjan Pathmanathan
 Christopher J. Penney
 Ryan Herman Pereira
 Vijay Ryan Pereira
 Goran Perosevic
 Wojciech Peszko
 Suthakaran Ponnuchamy
 Stephen Powell
with high distinction
 Reshma Prasad
 * Seema Rao
with distinction

Mohamed Rashid
 Lynne Anna Marie Sabourin
with distinction
 Ramesh Selladurai
 * Justin Shimoon
 Arul-Nagesu Singam
 Basharan Sinnanainar
 * Bereketab Sium
B.Sc. (Carleton)
 Ragunathan Sivapathasuntharam
 Sridha Sivarajan
 Bojan Skiljo
with high distinction
 Robert Sluijter
 Andrew B. Stewart
with high distinction
 John William Sullivan
B.Sc. (Carleton)
 Sze Li Ten
with distinction
 Jeyarajah Thambirajah
 Sriitharan Thiagarajah
 Sabthakaran Thiyagarajah
 Christopher M. Thomas
 Matthew A. Vannest
 * Kaemanathan Varapragasam
 Rajmohan Vigneswaran
 * Joan Wang
 * Brenda Leanne Weiss
 Yemane Wondim
 Henry Wong
with high distinction
 Winnie N. Ye
with high distinction
 Taylor Yiu
 Christina Young
 John Youssef

ENVIRONMENTAL
 Angelos Anastassopoulos
B.A. (Western Ontario)
with distinction
 Michael Thomas Joseph Baumann
B.A. (Waterloo)
with distinction
 Jeramy Joseph Bell
 Hossia Pikenene Chimbombi
 Rinaldo Cristiano

John Mathany Dechman
with high distinction
 Karina Lange
with distinction
 Marcia Lim
 Marie-Eve Ouellet
 * Julie L. Parker
 Jill Alison Peters
with distinction
 Manon A. Phaneuf
 Tina J. Roy
 Rakesh K. Sherman
 Duane R. Smith
B.A. (Carleton)
with high distinction
 John Sourial
B.Sc. (Stetson)
 Tabitha Takeda
 Ko Barrie Wong
 Thuy N. Wong
 Jiyoung Yu
with distinction

MECHANICAL
 * M. Yusef Akbari
 David A. Aldridge
with distinction
 Ryan Address
 Concentration in Computer-
 Integrated Manufacturing
with distinction
 Tim W. Berry
 Brock Bolton
with high distinction
 * Kevin Booth
B.Eng. (Carleton)
 Concentration in Computer-
 Integrated Manufacturing
with distinction
 Justin Andrew Carter
 Concentration in Computer-
 Integrated Manufacturing
 Irene A. Casey
 Erin E. P. Coe
 * Michelle Yvonne Cummings
 John Cutts
 Gilles Delorme
 Victor Do Canto
with distinction

Andrew G. Donaldson

with high distinction

Neil C. Farr

with high distinction

Gregory Eduard Galambos

Jonathon Gallant

Jeffery Stephen Graves

with high distinction

*** Christopher Hind**

Concentration in Computer-
Integrated Manufacturing

Sheri Lee Hoskin

William W. Hui

Deepak K. Katti

Julia Daria Matynska

with distinction

David A. McQuinn

Concentration in Computer-
Integrated Manufacturing

Anna Minichilli

Concentration in Computer-
Integrated Manufacturing

Yue Shing Victor Ng

Lam Nguyen

Concentration in Computer-
Integrated Manufacturing

Evelyn Noy

Marcin P. Ostrowski

Guy J. Poirier

Roberto Sanna

Concentration in Computer-
Integrated Manufacturing

Sandra L. Scott

B.Sc. (Ottawa)

Kyle G. L. Smith

with distinction

Tyler Robert Stearns

with distinction

Craig Taylor

Michael D. Ullett

Andrew Peter von Zuben

Bachelor of Architecture

*(presented by Associate Professor
J. Benjamin Gianni, Director of the
School of Architecture)*

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

Stephen R. Alexander

Nick Razvan Borcescu

with distinction

Andrew D. Bruce-Payne

with distinction

Michael M. Chan

with high distinction

Diana Ching Yee Cheng

B.A. (Carleton)

with distinction

Chris Minh Thanh Chung

with distinction

Paul A. Cooper

with distinction

David M. Couto

Jason Matthew Errol Currie

Erin K. Davidson

Toon F. Dreessen

with distinction

Michael William Driscoll

Natasha L. Ervin

Jason C. Flynn

with distinction

Titi Ghaffari

Troy E. Griffin

*** Dwayne Richard Hammond**

Teresa Elizabeth Hanna

with distinction

Janet Louise Harrison

Rhonda Lorraine Horne

with distinction

Robyn L. Huether

with distinction

*** James Edward Irwin**

Carl Ka Yau Kam

with distinction

Kelly Dawn Koroluk

Brent C. Lambert

with high distinction

Lisa-Marie Lupia

with high distinction

Reevan McKay

with distinction

Joseph McLaughlin

with high distinction

Siobhan Mary O'Brien

with distinction

Shannon Rose Pirie

with distinction

Dennis Pyon

with distinction

Mary Ellen Elizabeth Read

with high distinction

Lauren E. Scully

with distinction

Samia Sheikh

with distinction

Autumn Dawn Sweet

with distinction

Jakub J. Ulak

with high distinction

Julie C. Voisin

with distinction

Josephine S. K. Young

with high distinction

Ran Zaig

with distinction

Bachelor of Industrial Design

*(presented by Associate Professor
Brian P. Burns, Director of the
School of Industrial Design)*

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

Marcus W. K. G. Bosch

with distinction

Kelvin Chan

Michael J. Davison

Jodie Fletcher

with high distinction

Nicholas Brian Gillissie

with distinction

Benjamin Ho

Carrie A. Hurst

Jakub M. Jankowski

with distinction

Kim Kamo

Gerardo Kanter

with distinction

Jennifer Elizabeth Kwong

Andrew John MacPhail

with distinction

Paul L. Novak

Howard Nuk

with high distinction

David K. Orr

Wai Ki Chris Tang

Mike C. Thomas

Anny Wassef

Honorary Degree Recipient



G. Karl Diedrich

Karl Diedrich, former Storekeeper, Department of Chemistry, Carleton University, will be awarded the degree of Master of Science, *honoris causa*, at the afternoon ceremony on Saturday, June 17, "in recognition of an outstanding contribution to Carleton University and its members as a member of the staff for 35 years."

Honorary Degree Recipient



Jay Ingram

Jay Ingram, B.Sc., M.Sc., Bact., Co-host and Producer of @discovery.ca and former host of CBC-Radio's program *Quirks and Quarks*, will be awarded the degree of Doctor of Science, *honoris causa*, at the afternoon ceremony on Saturday, June 17, "in recognition of a distinguished contribution to the popularizing of science in Canada."

Order of Proceedings

Saturday, June 17, 2:00 p.m.



Chancellor Arthur Kroeger, O.C., M.A., LL.D., presiding.

*The audience is requested to stand when the Academic Procession arrives,
to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony
to remain until the Academic Procession has left.*

Processional Music

Fraser Clark, B.A., M.A. (bagpipes)
John Robert Coghill Jr., B.Mus. (bagpipes)
Garry Matthews (snare drum)

O Canada*

(the audience is invited to sing)

Introduction

Richard Van Loon, B.Sc., M.A., Ph.D.
President and Vice-Chancellor

Welcome by the Master of Ceremony

G. Stuart Adam, B.J., M.A., Ph.D.
Vice-President (Academic)

Conferring of the Degree of Master of Science, *honoris causa*, upon

G. Karl Diedrich
(presented by Donald Wiles, B.Sc., B.Ed., M.Sc., Ph.D., F.C.I.C., Adjunct Professor of Chemistry)

Conferring of the Degree of Doctor of Science, *honoris causa*, upon

Jay Ingram, B.Sc., M.Sc., Bact.
(presented by Peter J. Watson, B.Sc., Ph.D., Professor of Physics and
Dean of the Faculty of Science)

Convocation Address

Jay Ingram

Conferring of Degrees by Examination

Warrant

Chong H. Chan, B.Sc., M.A.Sc., Ph.D., P.Eng.
Clerk of Senate

Awarding of Medals

Recessional Music

** see next page for words*

O Canada



*O Canada! Our home and native land!
True patriot love in all thy sons command.
With glowing hearts we see thee rise,
The True North strong and free!
From far and wide, O Canada,
We stand on guard for thee.
God keep our land glorious and free!
O Canada, we stand on guard for thee.
O Canada, we stand on guard for thee.*

Recipients of Degrees



Doctor of Philosophy

(presented by Professor A.G. Razaqpur, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Dean Gregory M^cCurdy

B.Sc. (Acadia)

Biology

Impacts of Parasites on Reproductive Behaviour and Fitness of the Intertidal Amphipod *Corophium volutator* (Pallas)

Supervisor: M. Forbes

* Miguel Andres Providenti

B.Sc. (McGill), M.Sc. (Guelph)

Biology

Identification and Characterization of CbaR, A Repressor of cbaABC, The 3-Chlorobenzoic Acid Catabolic Genes of *Comamonas astreospora* BR60 (pBRC60)

Supervisor: R. C. Wyndham

Rocio Aranda-Rodriguez

B.Sc. (National Autonomous University of Mexico), M.Sc. (Carleton)

Chemistry

Assessment Of Polycrystalline Graphites As Sorbents For Solid Phase Microextraction Coupled To High Performance Liquid Chromatography

Supervisor: Robert Burk

* Timothy P. Bender

B.Sc. (Carleton)

Chemistry

Linear, Dendritic And Hyperbranched Polyimides; The Tetrahydro[5] Helicene Unit As A Novel Building Block For An Exercise In A Macro Molecular Architecture.

Supervisor: Zhi Yuan Wang

* Luyi Ding

Diploma, M.Sc. (Xiamen, China), M.Sc. (Carleton)

Chemistry

Studies of Electrospray/Ion Mobility Spectrometry/Time-of-Flight Mass Spectrometry

Supervisor: R. Guevremont and E. Lai

Wayne Mark Mullett

B.Sc. (Memorial)

Chemistry

"Investigation of Selective Binding Interactions for Analytical Separation and Determination of Pharmaceuticals and Toxins"

Supervisor: E.P.C. Lai

Sandy Owega

B.Sc. (Carleton)

Chemistry

Design, Construction and Development of a Laser Desorption Ionization/Laser Ablation Time-of-Flight Mass Spectrometer for Chemical Analysis with and without Surface Plasmon Resonance

Supervisor: E.P.C. Lai

James Ernest Howes

B.A. (Toronto), B.A., M.A. (Royal Military College), M.A. (Carleton)

Earth Sciences

Regolithic Fine-Fraction Weathering Patterns In The Northwest Ruby Range Of The Yukon Territory, Canada

Supervisor: J.K. Torrance

Isabelle McMartin

B.Sc. (Laval), M.Sc. (Quebec, Montreal)

Earth Sciences

Quaternary Geology And Environmental Geochemistry Of The Flin Flon Region, Manitoba And Saskatchewan

Supervisor: F. Michel and W. Shilts

Jay Martin Henry Adamsson

B.Sc. (Dalhousie), M.Sc. (Ottawa)

Mathematics

The Theory Of Arrangements And Applications To The Crossing Number Of C X C

Supervisor: R.B. Richter

* Sherry Meleah Jean Towers

B.Sc. (Simon Fraser), M.Sc. (Victoria)

Physics

Specialization in High Energy Physics A Study of Decays of the Tau Lepton with Charged Kaons

Supervisor: Dean Karlen

* Mark Anthony Lanthier

B.C.S., M.C.S. (Carleton)

Computer Science

Shortest Path Problems on Polyhedral Surfaces

Supervisor: J.-R. Sack and A. Maheshwari

Master of Science

(presented by Professor A.G. Razaqpur, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

Craig Carroll

B.Sc. (Carleton)

Biology

The Construction Of Several

Nitroreductase And O-

Acetyltransferase Overproducing

S. Typhimurium Tester Strains And

Their Application In The Salmonell

Amutagenicity Assay (Amestest)

Christine Parent

B.Sc. (McGill)

Biology

Life-Cycle And Ecological Impact Of

Polistes Versicolor Versicolor (Olivier)

(Hymenoptera: Vespidae), An

Introduced Predatory Wasp On The

Galapagos Islands, Ecuador

*** Michael William Shane**

B.A. (Carleton)

Biology

Physiological Anatomy of the Xylem

Pathway in Roots and Shoots of *Zea*

mays L.: Implications for Water

Transport

*** Fahad Al-mutlaq**

B.Sc. (King Saud University, Saudi Arabia)

Chemistry

(2,2',2''-Terpyridine) Platinum (II)

Complexes of Phenylcyanamide

and 1,4-Dicyanamido-2,5-

Dimethylbenzene Ligands

*** Leanne Lynn Bedard**

B.Sc. (Carleton)

Chemistry

Peroxidation of Human Low-Density

Lipoprotein (LDL) by Charged and

Uncharged Water-Soluble Peroxyl

Radicals

*** Ballari Mukherjee**

B.Sc., M.Sc. (Indian Institute of Technology, India)

Chemistry

Purification, Characterization and

Kinetic Studies of Alcohol

Dehydrogenase From Fish

Liver (Rainbow Trout) and Wheat

*** Abdul Munam**

B.Sc., M.Sc. (Karachi)

Chemistry

Chemistry of Dihydrophenanthrene

Ketal and its Application in Polymer

Curing

*** Sarah Margaret McMullen**

B.Sc. (New Brunswick)

Earth Sciences

Tectonic Evolution of the Bark Lake

Area, Eastern Central Gneiss Belt,

Ontario Grenville: Constraints from

Geology, Geochemistry and U-Pb

Geochronology

Jason Rickard

B.Sc. (Carleton)

Earth Sciences

Petrological And Mineralogical Study

of Cu-Ni-PGE-bearing Ores Within

The 100 Ore Body, Copper Cliff

North Mine, Sudbury, Ontario

Nicole Marie Sanborn

B.Sc. (Queen's), B.Ed. (Ottawa)

Earth Sciences

Microprobe Studies Of Alteration,

Discordance And Metamictization Of

Late Archean Zircons From The

Acasta Gneiss Complex, Canada

Jamila Siddiqi

M.Sc. (Quaid-E-Azam, Pakistan)

Earth Sciences

Horizontal-To-Vertical Component

Ratios For Earthquake Ground

Motions Recorded On Hard Rock

Sites In Canada

*** Mahmudul Alam**

B.Sc. (Dhaka, Bangladesh),

M.Sc. (Trondheim, Norway)

Information and Systems Science

*** Jianbo Du**

B.Sc. (Nankai), M.Sc. (Wuhan),

Ph.D. (Ottawa)

Information and Systems Science

Hong Fan

B.Eng. (Tsinghua, China),

M.E. (Nankai, China)

Information and Systems Science

*** Huiji Fan**

B.Eng. (University of Geosciences, China),

M.Sc. (University of Science and Technology, China)

Information and Systems Science

Hongyu Gai

B.Sc., M.Eng. (East China University of Science and Technology)

Information and Systems Science

Cheng Gong

B.Sc., M.Sc. (Lanzhou, China)

Information and Systems Science

*** Qingwen Lei**

B.Sc. (East China Normal University),

M.A. (Carleton)

Information and Systems Science

*** Haoyan Liao**

B.Sc. (Beijing College of Economics, China)

Information and Systems Science

*** Yongping Liu**

B.Sc. (Shanghai Jiao Tong, China)

Information and Systems Science

Zaiyu Luo

B.E. (Hunan, China)

Information and Systems Science

Qiong-Gong Ning

B.Eng., M.Eng. (Kunming Institute of Technology, China)

Information and Systems Science

*** Yuying Ou**

B.Eng. (Chengdu, China),

M.Eng. (New Brunswick)

Information and Systems Science

Peter Rabinovitch

B.A. (Concordia)

Information and Systems Science

Statistical Estimation of Effective

Bandwidth

*** Yassaman Rezvani**

B.Sc. (Carleton)

Information and Systems Science

Bi Shi

B.E. (Nanjing, China)

Information and Systems Science

Yimei Sun

M.Sc. (Calgary)

Information and Systems Science

Qun Wang

B.Sc., M.Sc. (East China Normal University)

Information and Systems Science

Bootstrap Techniques For Statistical

Pattern Recognition

Dongmin Wu

*B.Eng., M.Eng. (Beijing Press College, China),
M.A.Sc. (Ottawa)*

Information and Systems Science

Lin Zhang

B.Sc., M.Sc. (Wuhan, China)

Information and Systems Science

*** Zhengao Zhou**

*B.Eng., M.Sc. (Dalian University of
Technology, China)*

Information and Systems Science

*** Xia Luo**

B.C.S. (Shanghai, China)

Mathematics

Specialization in Biostatistics

*** Don Kumudu Mallawa Arachchi**

B.Sc. (Kelaniya, Sri Lanka)

Mathematics

Residual Properties of Groups

*** Gonzalo Pablo Domingo Mari**

*Licenciatura (Universidad Nacional De
Rosario, Argentina)*

Mathematics

*** Valerie Poulin**

B.Sc. (Universite de Sherbrooke)

Mathematics

A Generalization of the Logistic
Equation

*** Yvan Gauthier**

B.Sc. (Sherbrooke)

Physics

Specialization in Medical Physics

Measurement of The Apparent

Diffusion Coefficient of Water in

White Matter Using Magnetic

Resonance Imaging: A Phantom Study

*** Narine Kizilian**

B.Sc. (McMaster)

Physics

Specialization in Medical Physics

Prediction of Radiosensitivity by

Measurement of Radiation-Induced

Apoptosis in Human Blood using the

Comet Assay

Master of Computer Science

*(presented by Professor A.G.
Razaqpur, Associate Dean of the
Faculty of Graduate Studies and
Research)*

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

Mariana Agache

B.C.S. (Iasi, Romania)

Families Of Estimator-Based

Stochastic Learning Algorithms

*** Susheel Jalali**

B.Eng. (Allahabad, India)

Pipelined Hash Joins using Network
of Workstations

Wilson Lee

B.C.S. (Carleton)

Dominic Lessard

B.Sc. (Universite du Quebec à Trois-Rivières)

Optimal Polygon Placement on a Grid

Jian Lin

*B.Sc. (Jilin, China), M.Sc. (Changchun
Institute of Applied Chemistry, China)*

Shaojun Lin

B.Sc., M.Sc. (Nanjing, China),

Ph.D. (Guelph)

Yongsheng Liu

*B.Sc. (Harbin, China), M.Sc. (Inst. of Eng.
Mechanics, China)*

Salim Omar

*High Diploma (Higher Vocational Institute,
Libya)*

A Mobile Code Toolkit For Adaptive
Mobile Applications

*** Sheung Kwan Nelson Poon**

B.Comp.Sc. (Acadia)

3D Scenario and Interactive

Multimedia Courseware Authoring

System

*** Dorin Aurelian Sandu**

B.C.S. (Carleton)

Cross-Platform User Interfaces

E-Kai Shen

B.Eng. (Teng Chia, Taiwan)

Performance of Adaptive Middleware
Systems

Zhenren Zhou

*B.Sc. (Wuhan University of Technology,
China)*

Using Predicate Transition Nets

Approach to Verify the Security of

the Secure Electronic Transaction

Protocol

Adane Hadgu Zygt

B.Sc. (Hawana)

Object Category Data Model: A New

Model For Object-Oriented Database

Management Systems

Bachelor of Science (with Honours)

*(presented by Professor P.J.S.
Watson, Dean of the Faculty of
Science, assisted by representatives of
Departments)*

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

BIOCHEMISTRY**Philip O. Brown**

Highest Honours

Jamie Côté

High Honours in

Ivan Gorn

High Honours

Todd Robert Hodgson

Highest Honours

Graham Kent M^{rs}Neill

Honours

Kathy Cuc Nguyen

Highest Honours

Jaime St. Louis

High Honours

BIOLOGY**Regie Alam**

Honours

Justine Élise Callahan

Highest Honours

Minor in Psychology

Jonathan Robert Cole

B.A. (Carleton)

Honours

Minor in Psychology

Natasha Kristina Demarcq

Honours

Elliott Michael Faller
Highest Honours

Michael C. Fisk
B.Sc. (Carleton)
Honours

Cristin Patricia Grant
High Honours

Johanna Christine Innes
Honours

Donald Stuart Kerr
B.Sc. (Carleton)
Honours

David Ladd
High Honours

Marc J. Lajeunesse
Honours

*** Ho Wai Lee**
B.A. (Carleton)
Honours

Nancy Irene Macdonald
Honours

Trevor Joseph MacFarlane
Honours

Katherine Jennifer Parsons
High Honours

Mary Canella Rounopoulos
Highest Honours

CHEMISTRY

Steven P. Blais
Honours

Mohamed Farah Dirie
B.Sc. (Somali National)
Honours

Mark Foto
B.Sc. (Carleton)
Honours

Derek James Hodgson
Highest Honours

Olivia Fatma Koentjoro
Highest Honours

Marilu Irene McGrath
Highest Honours

Cara A. M. Weir
Honours

Irene Ana Maria Zuger
Honours

ENVIRONMENTAL SCIENCE

Danielle Deguire
B.A. (Carleton)
Honours

Tobi Jo Fisher
High Honours
Minor in Geographic Information
Processing

*** Robert Fraser**
Honours

Salma A. R. Jaroudi
Honours

Sue Newson
Highest Honours

Chamarie Anupama Perera
Honours
Minor in Geographic Information
Processing

Debora Elizabeth Quayle
Highest Honours

Joshua D. Proll
Honours
Concentration in Biology

Amila de Silva
Highest Honours
Concentration in Chemistry

GEOGRAPHY

Russell Beilby
Honours
Concentration in Geographic
Information Processing

GEOLOGY

Wanda Michelle Carter
High Honours

Jonathan Davis
High Honours

Cynthia Lynne Ellsworth
High Honours

Katherine Valerie Jean Facey
High Honours

Keith Patrick Holmes
Honours

Patrick David Lyons
Honours

Julie Peressini
B.A.A. (Ryerson)
Honours

Christopher N. A. Taylor
High Honours

Tanya A. Tettelaar
High Honours

Kerry Ann Vernier
Honours

INTEGRATED SCIENCE STUDIES

Jennifer Lynn Pranschke
Highest Honours

Kirsten B. Robillard
Highest Honours

Alexander J. Scholten
Honours

COMPUTER MATHEMATICS

Olivera Savic
Highest Honours

MATHEMATICS

Hyo-Jin Choi
Honours

*** Ahmad Tariq Fahimi**
B.Sc. (Carleton)
Highest Honours

Khoja Tamim Sediqui
Honours

COMPUTER STATISTICS

Eric Okullo
Honours

PSYCHOLOGY

Lauren Erika Rachel Figueredo
Highest Honours
Minor in Mathematics

Elaine Ho
High Honours

Daniel A. Lapkoff
Highest Honours

Laura Alaine Tejeda
High Honours

Amanda Nichola Toll
Highest Honours

BIOCHEMISTRY AND BIOTECHNOLOGY

Nadine Marie José Auger
Honours

Brian D. Avery
Highest Honours

Jason Malcolm Bailey
Highest Honours

Jennifer Ann Bean
Highest Honours

Angela K. Bilkhu
Honours

Brent Claydon
Highest Honours

Jennifer Crosthwait
Highest Honours

Alice Ka-Mun Lee
Highest Honours

Loren A. Matheson
Highest Honours

Tia Corinne Moffat
Highest Honours

Raymond Frank Tropiano
High Honours

Angela Yeung
High Honours

Charlene Donna Young
Honours

BIOLOGY AND BIOTECHNOLOGY

Lisa Kathryn Bartels
High Honours

Melanie Karen Berljawsky
Honours

Sherri Elizabeth Boucher
Highest Honours

Joanne Burbidge
B.P.A. (Carleton)
Highest Honours

*** Robin L. M. Cheung**
Honours

Raman Preet Singh Geekee
Honours

*** Lisa Danae Schultz Johnson**
Honours

Amanda Jane MacFarlane
Highest Honours

*** Ameneh Mirzaei**
Highest Honours

Supriya Mukherjee
Honours

Susaritha Ponnampalam
Honours

Jennifer Lee Reilander
Honours

*** Cara A. Scales**
High Honours

Erin Kelly Trottier
Highest Honours

Jennifer Anne Wawak
High Honours

BIOLOGY AND PHYSICAL GEOGRAPHY

Sarah Derrane
High Honours

*** Sharleen Mary Hawco**
Honours
Minor in Geographic Information
Processing

BIOLOGY AND PSYCHOLOGY

Tracy Lynn Lemoine
Highest Honours

NEUROSCIENCE

Angela Aebig
High Honours

Angela Avarello
Honours

Tammy Lyn Lorretta Legault
Highest Honours

Sameh Abdel Malek
Honours

Stefan Richard Voroney
B.A. (Carleton)
Honours

GEOLOGY AND PHYSICAL GEOGRAPHY

Leif Terrell Bjornson
B.Sc. (University of British Columbia)
Highest Honours

GEOLOGY AND PHYSICS

Eleanor Sonley
Honours

COMPUTER SCIENCE AND MATHEMATICS

Chris McDonald
Honours
Specialization in Computing Theory
and Numerical Methods

Bachelor of Science

*(presented by Professor P.J.S.
Watson, Dean of the Faculty of
Science and Professor L.A. Copley,
Director, College of Natural Sciences)*

Degrees conferred at Spring Convocation
are awarded by Senate in February and in
June. Degrees awarded in February are
denoted by an asterisk (*).

BIOCHEMISTRY

Nizar Batada
with distinction

Ryan A. Burns

Regina De La Campa

Deborah Dinakaran

Perumal Mouttayah

BIOLOGY

Veronica A. Canadien

Victoria M. Clarke

Peter Fancy

Victoria Fish

Catherine Jeanne Herbert

Stephanie Elin Johnson

Muy Ky Lo
B.A. (Carleton)

Jessica R. Lush

Cheryl MacDonald

*** Mira Makkar**

Eric Warren Miller

Michelle Morin

Andrea R. Rocco

*** Nadine Senechal**
B.A. (Carleton)

Jesse Torjman

Susan Wong

CHEMISTRY

Karen Elizabeth Bartlett

Ivan Alexander Chapchal

Kathleen S. Corriveau

Jodi Davidson

David Grant King

Anna Marie S. Muise

Sylvia Owega

GEOLOGY

David Andrew Lowry
Christopher J. Evans
Jamie Lyn M. Genereux

INTEGRATED SCIENCE STUDIES

Cynthia Lui Chow
Andrew I. C. Cole
Eftyhia Helis
Robin Elaine Johnston

Robin T. Kaine Mason

Kerry Ann McNeely
Minor in Business

Janet Yuk-Ching Ng

Michael McGregor Prescott
with distinction

* Donald James Thompson

Paul Stanley Yip

COMPUTER MATHEMATICS

* Rana Al-Khalidi
with distinction

Abdulkader Atta

Ahmed Mohamed Bule

James Donald Burnett

* Laurie Gaines

* Abdulkadir Hirey

* Hin Sum Sam Hung

* Iman Abdullahi Hussein

* Human Kavianpour

Osman Mohamed

Jason Daniel Mombourquette

* Osman Abdillahi Omar

Dominique J. Roy

Zehua Tong
B.M.S. (West China)
with distinction

Ian Robert Tremblay

* Aiming Zhao
B.A. (Hunan Normal), M.Ed. (Queen's)

MATHEMATICS

Dhamayanthi Gunabalasingam

Patricia Anne Pakianather

STATISTICS

Efrem Kahsai

Bachelor of Mathematics (with Honours)

(presented by Professor K.S. Williams, Director of the School of Mathematics and Statistics)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

MATHEMATICS

Jaffer Gardezi
Highest Honours

COMPUTER SCIENCE AND MATHEMATICS

* Veronique-Elise Audet
with Honours
Specialization in Computing Theory and Numerical Methods

Bachelor of Mathematics

(presented by Professor K.S. Williams, Director of the School of Mathematics and Statistics)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

COMPUTER MATHEMATICS

* Hossain Ghadimi

Hung Quoc Ha

* Geoffrey Wayne McLelland

Stephen Savard

Pamela Dawn Sigler
with distinction

MATHEMATICS

Philippe Zaborowski

STATISTICS

Aaron Franklin Learmonth

Bachelor of Computer Science (with Honours)

(presented by Associate Professor Irwin Reichstein, representing the Director of the School of Computer Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*).

* Tad Adams
High Honours
Minor in Economics

John I. Alpert
with Honours
Minor in Mathematics

* John Arthorne
B.C.S. (Carleton)
Highest Honours
Co-operative Education

* Jeyanthi Balasingham
with Honours

Adrian Becea
Highest Honours

Andrew Olatunde Belo
High Honours
Co-operative Education
Minor in Mathematics

* Jill Binder
with Honours
Co-operative Education

* Michel Richard Blais
B.Eng. (École Polytechnique de Montréal)
Highest Honours
Minor in Mathematics

Dragos Brad
with Honours
Minor in Mathematics

Kevin Andrew Butcher
with Honours
Minor in Psychology

Bruce Douglas Campbell
B.Com. (Carleton)
with Honours

Christiane Louise Campbell
Highest Honours

Marc Cardinal
Highest Honours
Co-operative Education

- Rosalind Chen**
Highest Honours
- Madecha Kausar Choudhry**
Highest Honours
Minor in Mathematics
- Clifford Craig Houston Darling**
Highest Honours
Minor in Mathematics
- * Matthew Darwin**
High Honours
Co-operative Education
- Kenneth James Dawson**
with Honours
- DungTien Do**
with Honours
- * Amir Esmailpour**
B.Sc. (Ottawa)
with Honours
- Joel Farquhar**
with Honours
- Darrell Ferguson**
Highest Honours
- * Tara Christine Graves**
B.Admin. (University of Regina)
Highest Honours
- David Livingstone Hallam**
Highest Honours
- Ekaterina Harchenko**
Highest Honours
Co-operative Education
Minor in Business
- Ying Huang**
Highest Honours
- * Jennifer Kim**
High Honours
Co-operative Education
- Kyunam Kim**
with Honours
Minor in Mathematics
- Ho Chuen Jonathan Kwok**
with Honours
- Kevin Ka Fai Lau**
with Honours
- Oanh Le**
High Honours
Co-operative Education
- Phuong-Trinh Le-Thi**
High Honours
Co-operative Education
- Amy Guoyan Lin**
with Honours
- N. Erin Love**
High Honours
Co-operative Education
- Lee Gerald MacLean**
High Honours
Minor in Mathematics
- Shahzad A. Malik**
Highest Honours
Minor in Mathematics
- Tongling Mao**
High Honours
- Joseph Thomas McClelland**
with Honours
- Dmitry Nekrasovski**
Highest Honours
- Hai An Nguyen**
Highest Honours
- Tim Park**
High Honours
Co-operative Education
- Teresa Elisabeth Power**
High Honours
Co-operative Education
- Trevor James Ritchie**
with Honours
- Kelly Thomas Robinson**
with Honours
- Harold Alexander Rootham**
with Honours
- * Michael David Roth**
with Honours
- * Jeramy Edwin Rutley**
with Honours
Minor in Mathematics
- Oscar Strawczynski**
Highest Honours
- * Tin Po Thomas Tai**
Highest Honours
- Eric Christopher Torunski**
with Honours
- Nguyet Ha Tran**
with Honours
- Conrad Tullius**
High Honours
Co-operative Education
Minor in Mathematics
- Parvathi V. Tyamagondlu**
M.Sc. (Bangalore)
High Honours
- Ronald James Walker**
B.Theol. (Eastern Pentecostal Bible College)
Highest Honours
Co-operative Education
- * Gregory Harold Wallis**
High Honours
Co-operative Education
- William Ivan Wallis**
Highest Honours
Co-operative Education
- Dana Webber**
High Honours
- Derek Wueppelmann**
with Honours
- Richard Ching-Yuan Yang**
High Honours
Co-operative Education
- Andy Yee**
High Honours
Co-operative Education
- Yafei Zhang**
High Honours

*The following awards
were made by Senate
after publication of the
1999 Fall
Convocation program.*



Bachelor of Arts (with Honours)

Majeda Ayoub
High Honours in Sociology

Beverley Anne Wood
Honours in Political Science
Mention: français

Bachelor of Arts

Jamie J. Blimkie
Sociology and Anthropology

Lisa Dawn Bradburn
Art History

Timothy Vinotharan Gunaratnam
Economics

Andrew Harrigan
Psychology

Grant Darwin Rice MacDonald
Interdisciplinary Studies

Tracey Mighty
Interdisciplinary Studies

Ifeanyi Bridget Olisemeka
Sociology and Anthropology

Ann¹ Berthe Rénoüs
Law, and Sociology and
Anthropology

Jennifer Sarah Stevenson
Psychology

Bachelor of Journalism (with Honours)

Corey Lee Boles
Journalism and History

Bachelor of Engineering

Khaled Kelashipour
Electrical

Medallists in the Graduating Class



The Governor General's Medal – Bachelor's Level

Awarded annually to the student standing at the head of the graduating class at the bachelor's level.

Donor: Her Excellency the Governor General of Canada

Christopher Emil Kutarna

Bachelor of Commerce

The Chancellor's Medal

Awarded annually in the name of the Chancellor of the University to a graduating student of outstanding academic achievement.

Dmitry Nekrasovski

Bachelor of Computer Science

Software (Co-op)

The President's Medal

Awarded annually in the name of the President of the University to the student with the highest standing in a pass program of studies.

Frederick John Sebastian

Bachelor of Arts

Art History

University Medal for Outstanding Graduate Work – Ph.D. Level

Awarded, when merited, for outstanding graduate work at the doctoral level.

Mark Anthony Lanthier

Computer Science

University Medal for Outstanding Graduate Work – Master's Level

Awarded, when merited, for outstanding graduate work at the master's level.

Anestis Dounavis

Electrical Engineering

University Medals (Undergraduate)

Awarded annually, when merited, to the graduating students standing highest in interfaculty studies, arts, international business, science, engineering, architecture, commerce, computer science, humanities, industrial design, journalism, mathematics, music, public administration, and social work.

University Medal in Interfaculty Studies

Alex Wong

Bachelor of Arts (Honours)

Biology and Philosophy

University Medal in Arts

Dexter Marlon Drayton

Honours Environmental Studies

University Medal in Arts

Corey Stevenson

Honours Film Studies and Mass Communication

University Medal in Science

Erin Kelly Trottier

Honours Biology and Biotechnology

University Medal in Computer Science

David Livingstone Hallam

Management and Business Systems

University Medal in Commerce
Christopher Emil Kutarna

University Medal in International Business
Thi Viet Anh Dao

University Medal in Social Work
Cheryl D. Nelson

University Medal in Engineering
Jaime G. Walker
Computer Systems Engineering

University Medal in Industrial Design
Andrew John MacPhail

University Medal in Humanities
Meredith Jean Beyer-Alldridge

Senate Medals

Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level
Sherry Meleah Jean Towers
Physics

Chad Elliott English
Aerospace Engineering

Raymond Vander Zaag
Geography

Christian Rouillard
Political Science

Master's Level
Richard Michael Kearsey
Aerospace Engineering

Valerie Poulin
Mathematics

Kobana Abdulai Abukari
Management Studies

Wernfrid Doell
Applied Language Studies

Undergraduate Level
Piotr Smetny-Sowa
Computer Systems Engineering

Alice Ka-Mun Lee
Honours Biochemistry and Biotechnology

Winnie N. Ye
Electrical Engineering

David Joe Willis
Aerospace Engineering

Daniel S. Faya
Computer Systems Engineering

Michael John Crichton
Electrical Engineering

Marc Cardinal
*Bachelor of Computer Science
Management and Business Systems*

John Arthorne
*Bachelor of Computer Science
Software*

Jennifer Lynn Pranschke
Integrated Science Studies

Lisa Maryse Roberts
Bachelor of Commerce

Philip O. Brown
Honours Biochemistry

Michael K. Bowler
Electrical Engineering

Diane Renee McLaughlin
Honours Environmental Studies

Joseph J. Paul
Computer Systems Engineering

Jason Malcolm Bailey
Honours Biochemistry and Biotechnology

Brian A.F. Taylor
Aerospace Engineering

Lilly Katharina Bokhari
Honours Linguistics and Applied Language Studies

Paul Alexander Choma
Political Science

Limor Zomer
*Bachelor of Arts (Honours)
Psychology*

William Ivan Wallis
*Bachelor of Computer Science
Management and Business Systems*

Shauna M.A. Rauhala
Aerospace Engineering

Jennifer Crosthwait
Honours Biochemistry and Biotechnology

John Douglas Milton
Honours Geography

Debora Elizabeth Quayle
Honours Environmental Science

Olivia Fatma Koentjoro
Honours Chemistry

Stephen Powell
Electrical Engineering

Carrie Dawn Vandewint
Bachelor of Humanities

Eddy Wayne Chow
Electrical Engineering

Lisa J. Poushinsky
Art History

Andrea Lynn England
Bachelor of Humanities

Danny Vassiliou
Honours German and Mass Communication

Randa Saryeddine
Bachelor of International Business

Linda Dimitra Rhea Scourtoudis
Bachelor of International Business

Timothy Charles Murphy
Bachelor of Commerce

Shahzad A. Malik
*Bachelor of Computer Science
Software*

Erin Jennifer Thiessen
Honours History and Political Science

Eryk Roland Swist
Aeropsace Engineering

Mike Labreque
Comparative Literature

Bojan Skiljo
Electrical Engineering

Todd Robert Hodgson
Honours Biochemistry

Natalie Adele Poulson
Sociology and Anthropology

Duane R. Smith
Environmental Engineering

Brian L. Redekopp
Bachelor of Humanities

Henry Wong
Electrical Engineering

Pamela Dawn Sigler
Bachelor of Mathematics

Caroline Lam
Computer Systems Engineering

Jan Jakub Jakobiec
Honours Art History and Film Studies

Kevin Lam
Computer Systems Engineering

Adam Paul Fiser
Bachelor of Journalism
Journalism and Sociology

Nizar Batada
Biochemistry

Shannon Leigh Good
Bachelor of Commerce

Amy Gennett Milne-Smith
Bachelor of Humanities

Tia Corinne Moffat
Honours Biochemistry and Biotechnology

Laura M. Sie
Aerospace Engineering

Daniel G. Opuku
Aerospace Engineering

Rebecca Lynne Dorval
Bachelor of Commerce

Richard Fontes Vieira
Bachelor of Journalism

Catherine Mary Keresztesi
Bachelor of Humanities

Ahmad Tariq Fahimi
Honours Bachelor of Science
Mathematics

Ann Inger Bjornsfjord
Honours French

Elizabeth Gooding
Bachelor of International Business





